

ABSTRACT OF THE DISCLOSURE

A device for monitoring the integrity of a flexible pipe used for transporting a pressurized fluid in a terminal end-fitting. The pipe includes an internal pressure sheath, plies of tensile armor wires and an outer sheath fastened to the end-fitting. A monitor of the change in a phenomenon associated with the disorganization of the armor plies as a result of a fracture of several tensile armor wires inside the end-fitting. The monitor detects an increase in the twist in the pipe near the end-fitting. Gas escape from the pipe or strain on the pipe may be measured as such phenomenon.